# I. GENERAL PROJECT DESCRIPTION

This project involves the reconstruction of an existing signal to provide for additional through and left turn lanes along US Route 1 (Baltimore Avenue), a new median along US Route 1, and the addition of IKEA Centre Blvd. to the north side of the intersection. The existing signal pole on the north-west side of the intersection will be removed and new signal poles and mast arms will be installed at all four corners of the intersection. Detection cameras will be installed for the left turn lanes along US 1 and all of the "at signal" lanes for the minor roads. Micro-probes will be used for the advanced detection along US Route 1.

#### II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 8-phase, semi-actuated mode, with the East-West approaches running seperately.

#### III. CONTROLLER REQUIREMENT

 Install a fully-actuated, eight phase controller with two (2) four channel, time-delay-output loop detector amplifiers, and associated harnesses housed in a NEMA size "6" base mounted cabinet.

## PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS DISTRICT ENGINEER (301) 513-7311

MR. MAJID SHAKIB ADE TRAFFIC

(301) 513-7358

MR. DENNIS MCMAHON ADE CONSTRUCTION (301) 513-7345

(410) 787-7630
MR. EDWARD RODENHIZER
CHIEF OF SIGNAL OPERATIONS
(410) 787-7652

DIVISION CHIEF. TOD

# EQUIPMENT LIST A

MR. BARRY KING

CHIEF, TEDD (410) 787-4011

A. THE CONTRACTOR SHALL FURNISH THE INTERFACE EQUIPMENT FOR THE CAMERAS AND SHA SHALL INSTALL THE INTERFACE EQUIPMENT FOR THE CAMERAS.

## EQUIPMENT LIST B

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

#### QUANTITY DESCRIPTION

LS MAINTENANCE OF TRAFFIC

3 CY TEST PIT EXCAVATION

20 CY FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION

8 EACH FURNISH AND INSTALL 12 IN., ONE-WAY, THREE SECTION (R.Y.G) BLACK-FACED TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING.

3 EACH FURNISH AND INSTALL 12 IN., ONE-WAY, THREE SECTION (RA,YA,GA) BLACK-FACED TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING.

2 EACH FURNISH AND INSTALL 12 IN., ONE-WAY, FOUR SECTION (R,Y,G,GA) BLACK-FACED TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING.

1 EACH FURNISH AND INSTALL 12 IN., ONE-WAY, FIVE SECTION (R.Y.G.YA.GA) BLACK-FACED TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING.

FURNISH AND INSTALL 12 IN., ONE-WAY, TWO SECTION (WALK, DON'T WALK)
PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM POLE MOUNTING
AND CUTAWAY VISORS.

2 EACH FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND R10-4(2) SIGN - "PUSHBUTTON TO CROSS BALTIMORE AVE.".

115 SF FURNISH AND INSTALL SHEET ALUMINUM SIGNS

- 2 EACH D6-1 SIGN (24" X 51") - MAST ARM MOUNT - 6 EACH R3-5L SIGN (30" X 36") - MAST ARM MOUNT

- 1 EACH R3-5R SIGN (30" X 36") - MAST ARM MOUNT

- 3 EACH D3-2 SIGN (VAR. X 16") - MAST ARM MOUNT - 1 EACH R10-12 (24" X 30") - MAST ARM MOUNT

5 EACH FURNISH AND INSTALL 3/4 IN. X 10 FT. GROUND ROD

FURNISH AND INSTALL MAST ARM POLE AND 60 FT. MAST ARM

3 EACH FURNISH AND INSTALL MAST ARM POLE AND 50 FT, MAST ARM

2 EACH FURNISH AND INSTALL 20 FT. LIGHTING ARM FOR TRAFFIC SIGNAL STRUCTURE

2 EACH FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL

440 LF FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)

390 LF FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR TYPE T/C (NO. 12 AWG)

30 LF FURNISH AND INSTALL ELECTRICAL CABLE-1 CONDUCTOR (NO. 14 AWG)

2 EACH FURNISH AND INSTALL FOUR-CHANNEL, LOOP DETECTOR AMPLIFIER

# PHASING SEQUENCE CHART

# EXISTING TO REMAIN

